

Table 2. Percent Change in Concentrations and Loads of Upstream/Downstream Program Chemicals between the Base Year and 1996/97.

Chemical	Period of record	Fort Erie				Niagara-on-the-Lake			
		Concentration % change		Load % change		Concentration % change		Load % change	
		Dissolved	Susp. Part.	Dissolved	Susp. Part.	Dissolved	Susp. Part.	Dissolved	Susp. Part.
Chlorobenzenes									
Hexachlorobenzene	1986-1997	--	--	--	--	-69.6	-51.0	-67.3	-63.5
Chlorinated Pesticides & PCBs									
a-chlordane	1986-1997	--	NS	--	NS	NS	NS	NS	NS
g-chlordane	1986-1997	--	--	--	--	--	--	--	--
p,p'-DDT	1986-1997	--	-42.1	--	-75.6	--	-35.2	--	-51.8
o,p'-DDT	1986-1997	--	--	--	--	--	--	--	--
p,p'-TDE	1986-1997	-25.5	NS	-33.6	NS	NS	-29.1	NS	-47.3
p,p'-DDE	1986-1997	NS	-25.3	NS	-68.5	NS	-23.2	NS	-42.8
Dieldrin	1986-1997	-58.6	-38.2	-63.1	-74.0	-56.5	-60.1	-61.5	-70.3
Mirex	1986-1997	--	--	--	--	--	-49.6	--	-62.5
PCBs	1986-1997	-58.5	-59.5	-63.1	-82.9	-59.0	-75.5	-63.6	-81.8
PAHs									
Benz(a)anthracene	1986-1997	-59.1	-17.7	-63.6	-65.3	-40.8	-33.8	-47.5	-50.7
Benzo(a)pyrene	1988-1997	--	+81.1	--	+7.1	--	NS	--	NS
Benzo(b/k)fluoranthene	1986-1997	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene-triphenylene	1986-1997	-30.6	NS	-38.2	NS	NS	-22.0	NS	-41.9
Industrial By-products									
Octachlorostyrene	1989-1997	--	--	--	--	--	-89.6	--	-84.0
Trace Metals in Whole Water									
		Whole Water Concentration % Change		Whole Water Load % Change		Whole Water Concentration % Change		Whole Water Load % Change	
Lead	1986-1997	-84.4		-86.2		-68.9		-72.4	
Arsenic	1986-1997	-3.1		-14.3		NS		NS	
Mercury	1986-1997	-83.6*		-85.5*		--		--	

Notes:

* Raw data shows a decreasing trend, although caution must be exercised since early mercury data considered unreliable due to the likelihood of contamination.

NS No significant trend was detected by the model for the period of record.

-- Too few values above the detection limit to run the model.